

[illegible]

```
CCCCCCCC LL      UU      UU      SSSSSSSS TTTTTTTTTT RRRRRRRR MM      MM      AAAAAA CCCCCCCC
CCCCCCCC LL      UU      UU      SSSSSSSS TTTTTTTTTT RRRRRRRR MM      MM      AAAAAA CCCCCCCC
CC        LL      UU      UU      SS        TT        RR      RR      MM      MM      AA      AA      CC
CC        LL      UU      UU      SS        TT        RR      RR      MM      MM      AA      AA      CC
CC        LL      UU      UU      SS        TT        RR      RR      MM      MM      AA      AA      CC
CC        LL      UU      UU      SS        TT        RR      RR      MM      MM      AA      AA      CC
CC        LL      UU      UU      SS        TT        RR      RR      MM      MM      AA      AA      CC
CC        LL      UU      UU      SS        TT        RR      RR      MM      MM      AA      AA      CC
CC        LL      UU      UU      SS        TT        RR      RR      MM      MM      AA      AA      CC
CCCCCCCC LLLLLLLLLL UUUUUUUUUU SSSSSSSS TT        RR      RR      MM      MM      AA      AA      CC
CCCCCCCC LLLLLLLLLL UUUUUUUUUU SSSSSSSS TT        RR      RR      MM      MM      AA      AA      CC
MM      MM      AAAAAA RRRRRRRR
MM      MM      AAAAAA RRRRRRRR
MMM      MMM      AA      AA      RR      RR
MMM      MMM      AA      AA      RR      RR
MM      MM      MM      AA      AA      RR      RR
MM      MM      MM      AA      AA      RRRRRRRR
MM      MM      MM      AA      AA      RRRRRRRR
MM      MM      AAAAAAAAAA RR      RR
MM      MM      AAAAAAAAAA RR      RR
MM      MM      AA      AA      RR      RR
MM      MM      AA      AA      RR      RR
MM      MM      AA      AA      RR      RR
MM      MM      AA      AA      RR      RR
```

.TITLE CLUSTRLOA\_MACROS  
.IDENT 'V04-000'

\*\*\*\*\*  
\*  
\* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
\* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.  
\* ALL RIGHTS RESERVED.  
\*  
\*\*\*\*\*

\* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED  
\* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE  
\* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER  
\* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  
\* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY  
\* TRANSFERRED.  
\*  
\*\*\*\*\*

\* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE  
\* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT  
\* CORPORATION.  
\*  
\*\*\*\*\*

\* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS  
\* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.  
\*  
\*\*\*\*\*

++

FACILITY:

VAX/VMS EXECUTIVE, VAXcluster MANAGEMENT

ABSTRACT:

This module contains macros in common use by the VAXcluster management routines.

AUTHOR: Ralph O. Weber

21-JUN-1983

MODIFIED BY:

--

.SBTTL CSID\_TO\_CSB

++

This macro converts a CSID to a CSB.

Inputs:

R3 CSID

Outputs:

R0 & R1 destroyed  
CSB CSB address [default = R0]  
ERROR error exit address (taken when CSID is not valid)

--

```
.MACRO CSID_TO_CSB CSB=R0, ERROR
MOVZBL R3,R0          ; Get CSID index value.
MOVL   G^CLUSGL_CLUSVEC,R1 ; Get base of CSB vectors.
MOVL   (R1)[R0],R0      ; Get CSB address.
BGEQ   ERROR           ; Branch if no CSB for index.
CMPL   CSB$$_CSID(R0),R3 ; Does input CSID match CSB CSID?
BNEQ   ERROR           ; Branch if they don't match.
.IF    DIF <CSB>, R0
MOVL   R0,CSB          ; Move CSB to final home.
.ENDC
.ENDM CSID_TO_CSB
```



.SBTTL TEST\_CSB\_OPEN

++  
This macro transfers to the address specified by the NO argument  
if the CDB pointed to by R3 is not open.

Inputs:

R3 CSB address

Outputs:

NO transfer address used when CSB is not open

--

```
.MACRO TEST_CSB_OPEN NO
CMPB CSB$B_STATE(R3), -      ; Is connection open?
      #CSB$R_OPEN
BNEQ NO                      ; Branch if not open.
.ENDM TEST_CSB_OPEN
```



0391 AH-BT13A-SE  
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION  
CONFIDENTIAL AND PROPRIETARY